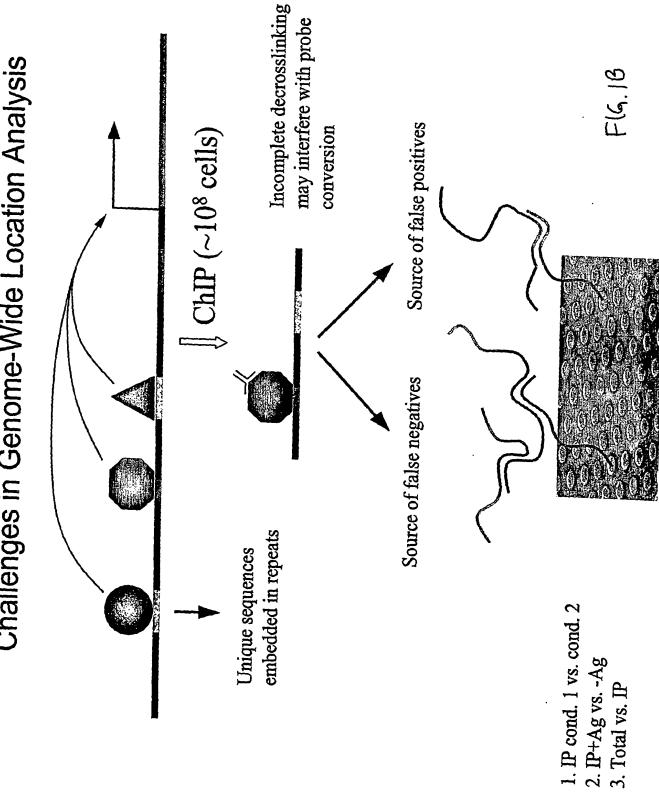
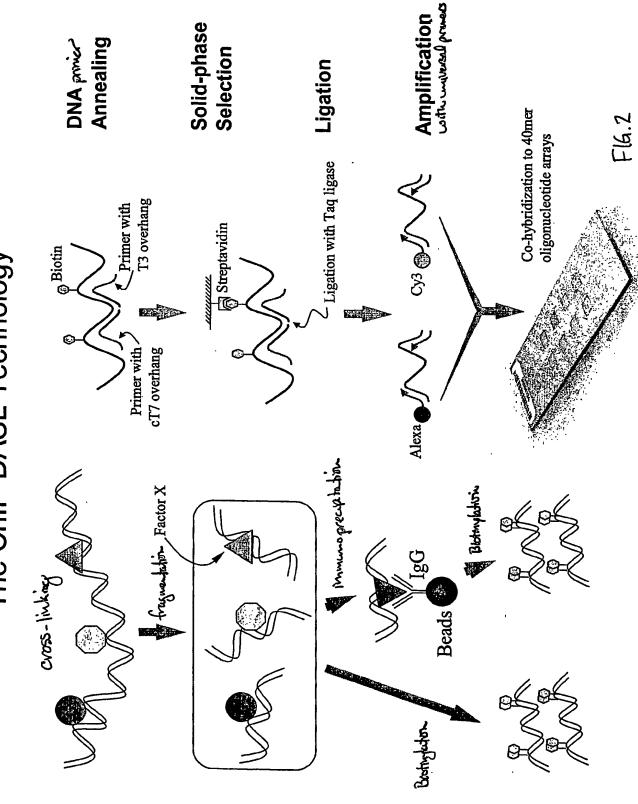


Challenges in Genome-Wide Location Analysis



## The ChIP-DASL Technology



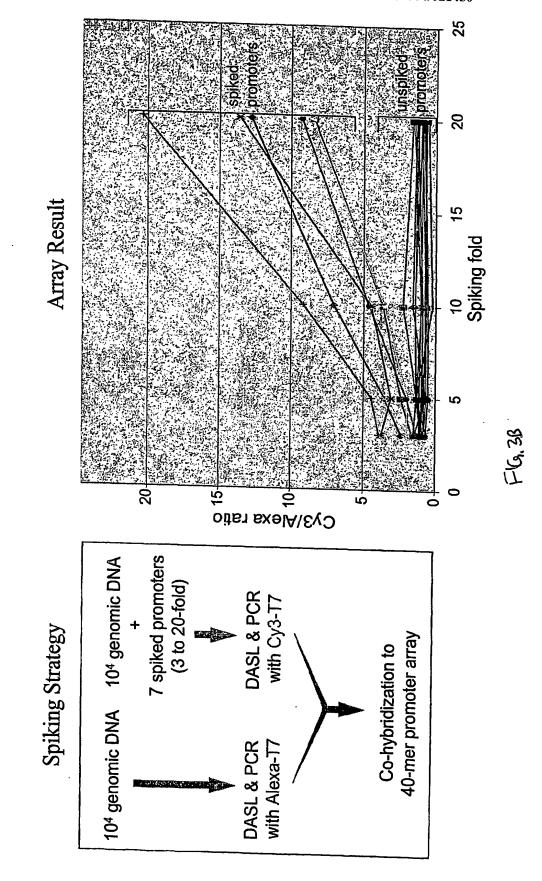
Specificity and Sensitivity of DASL

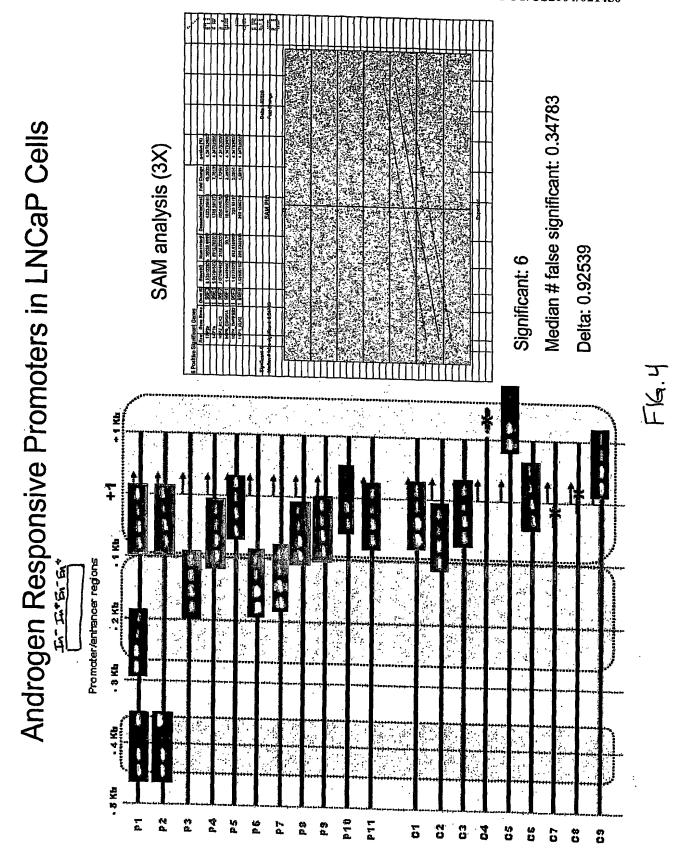
Reaction #	_	7	60	ゴ	Ŋ	و	23456789	8	ه	0	
Genomic DNA		105	105	105	105   105   105   105	105				105	
Spiked Plasmid DNA			102	103	104	105	102   103   104   105   105		105		
Oligo Pool for Genomic DNA								+	+ + +	+	
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										West Common to the second	

1 2 3 4 5 6 7 8 9 10 11 12

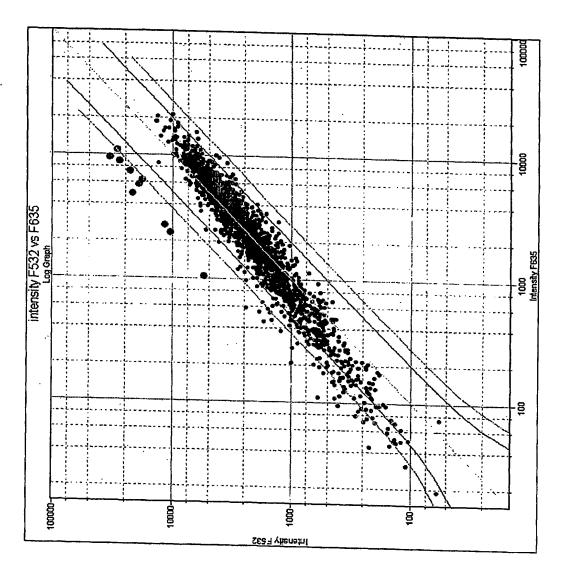
F16,34

### Characterization of the ChIP-DASL Technology by using Spiking Controls



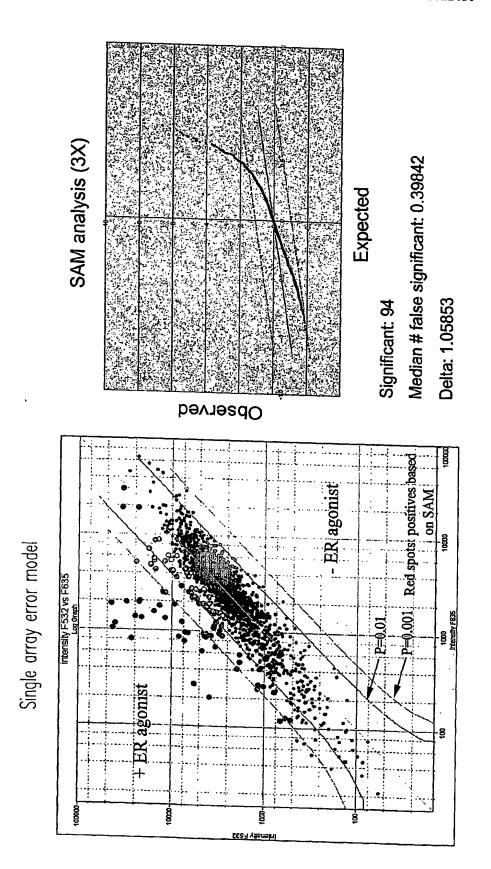


5-fold Spiking on the 2K Human Promoter Array



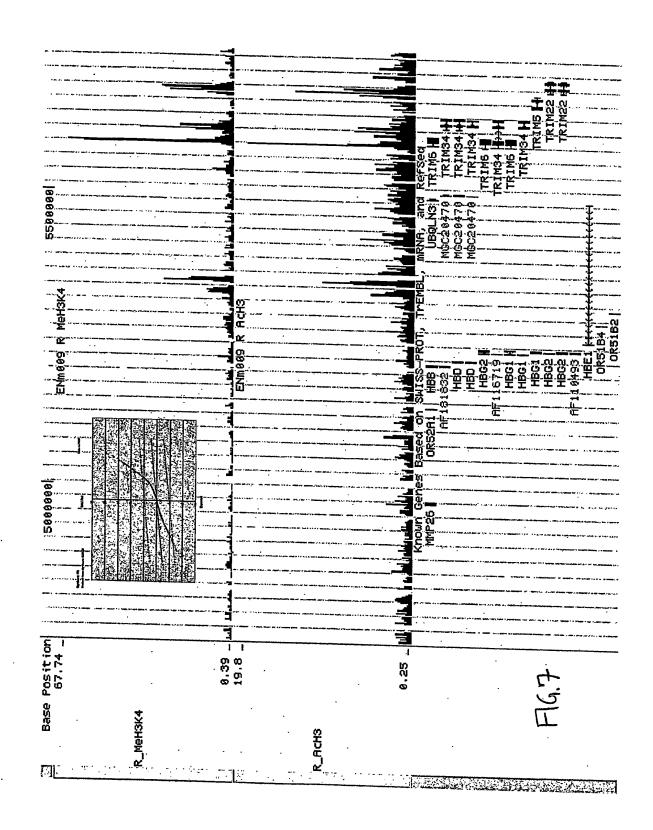
1

# Identification of Estrogen Receptor Target Genes by DASL



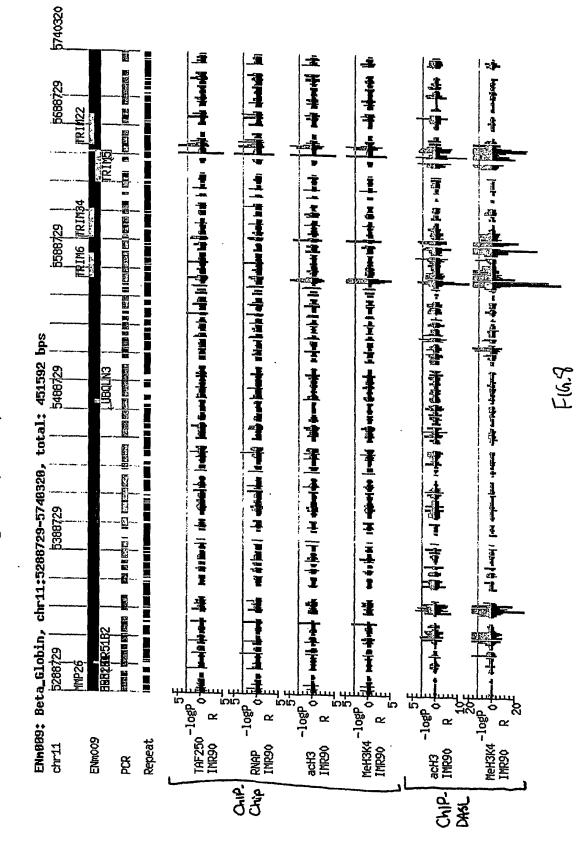
FlG. Co

Mapping Transcription Units by Tiling on the  $\beta$ -globin Locus

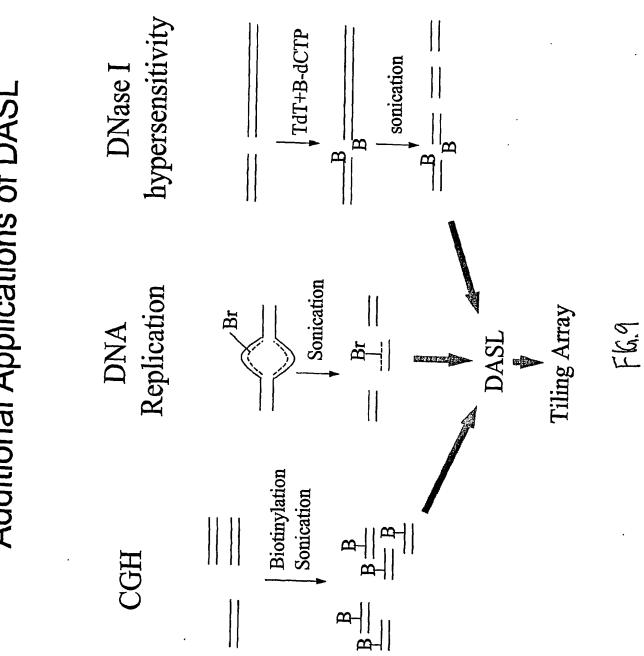


# Mapping Transcription Units by Tiling on the β-globin Locus

Project goal: Mapping functional DNA elements in the ENCODE region Collaborator: Bing Ren (UCSD)



## Additional Applications of DASL



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